

## **MICROSPECTROMETER SYSTEM WITH SELECTABLE APERTURING**

### **ABSTRACT**

Mirror elements are selectively interposable in the beam paths in a  
5 dual aperture microspectrometer system to selectively bypass the  
aperture element in transmission or reflection modes to increase optical  
throughput and field of view. The system may be operated in a dual  
aperture transmission mode or reflection mode and in modes in which the  
aperture is bypassed before or after the infrared beam reaches the  
10 sample. The system may be operated to bypass the aperture both before  
and after the sample, which may be utilized with an array detector having  
multiple detector elements in which an image of the sample is formed on  
the array detector.